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engineering data service

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6T4

MECHANICAL DATA

Bulb	T-5 1/2
Base	E7-1, Miniature Button 7-Pin
Outline	5-1
Basing	7DK
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 Volts	
Heater Current	225 Ma	
Heater-Cathode Voltage (Design Center Values)		
Heater Negative with Respect to Cathode		
Total DC and Peak	50 Volts	Max.
Heater Positive with Respect to Cathode		
DC	25 Volts	Max.
Total DC and Peak	50 Volts	Max.

DIRECT INTERELECTRODE CAPACITANCES

	Shielded[1]	Unshielded
Grid to Plate	1.7	1.7 $\mu\mu f$
Input	3.3	2.9 $\mu\mu f$
Output	1.8	0.25 $\mu\mu f$
Heater to Cathode[2]	2.9	3.0 $\mu\mu f$
Grid to Cathode[2]	2.6	2.6 $\mu\mu f$
Plate to Cathode[2]	.18	.20 $\mu\mu f$
Grounded Grid Operation		
Input	5.7	5.5 $\mu\mu f$
Output	3.4	1.8 $\mu\mu f$

RATINGS (Design Center Values)

Plate Voltage	200 Volts	Max.
Plate Dissipation	3.5 Watts	Max.
Grid Current	8.0 Ma	Max.
Cathode Current	30 Ma	Max.

CHARACTERISTICS

Plate Voltage	80 Volts
Cathode Resistor	150 Ohms
Plate Current	18 Ma
Transconductance	7000 μmhos
Amplification Factor	13
Plate Resistance	1860 Ohms
Grid Voltage for $I_b = 50\ \mu a$	-15 Volts

TYPICAL OPERATION (Oscillator at 950 Mc)

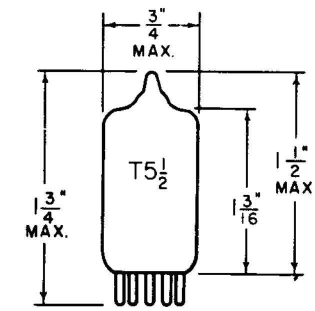
Plate Voltage	80 Volts
Grid Voltage (Self Bias)	-4 Volts
Grid Resistor	10000 Ohms
Plate Current	18 Ma
Grid Current (approx.)	400 μa

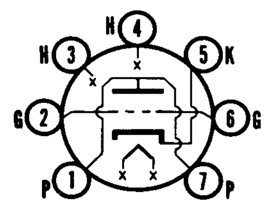
NOTES:

1. *Shield No. 316.*
2. *Measured between specified elements only. When external shield is used, it shall be grounded.*

QUICK REFERENCE DATA

The Sylvania 6T4 is a miniature low mu triode intended for service as a uhf oscillator in television receiver tuners.





7 DK

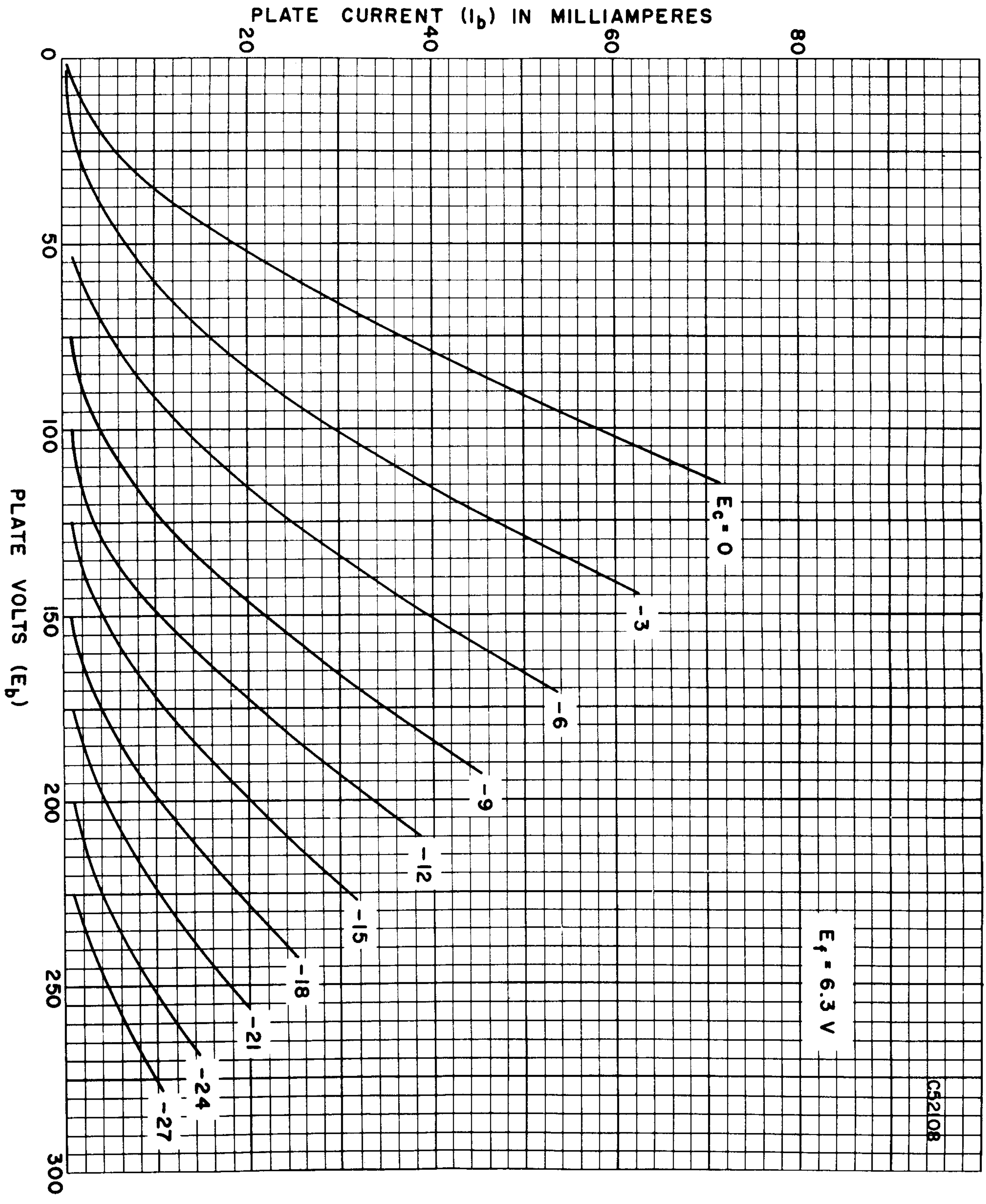
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RADIO TUBE DIVISION
EMPORIUM, PA.

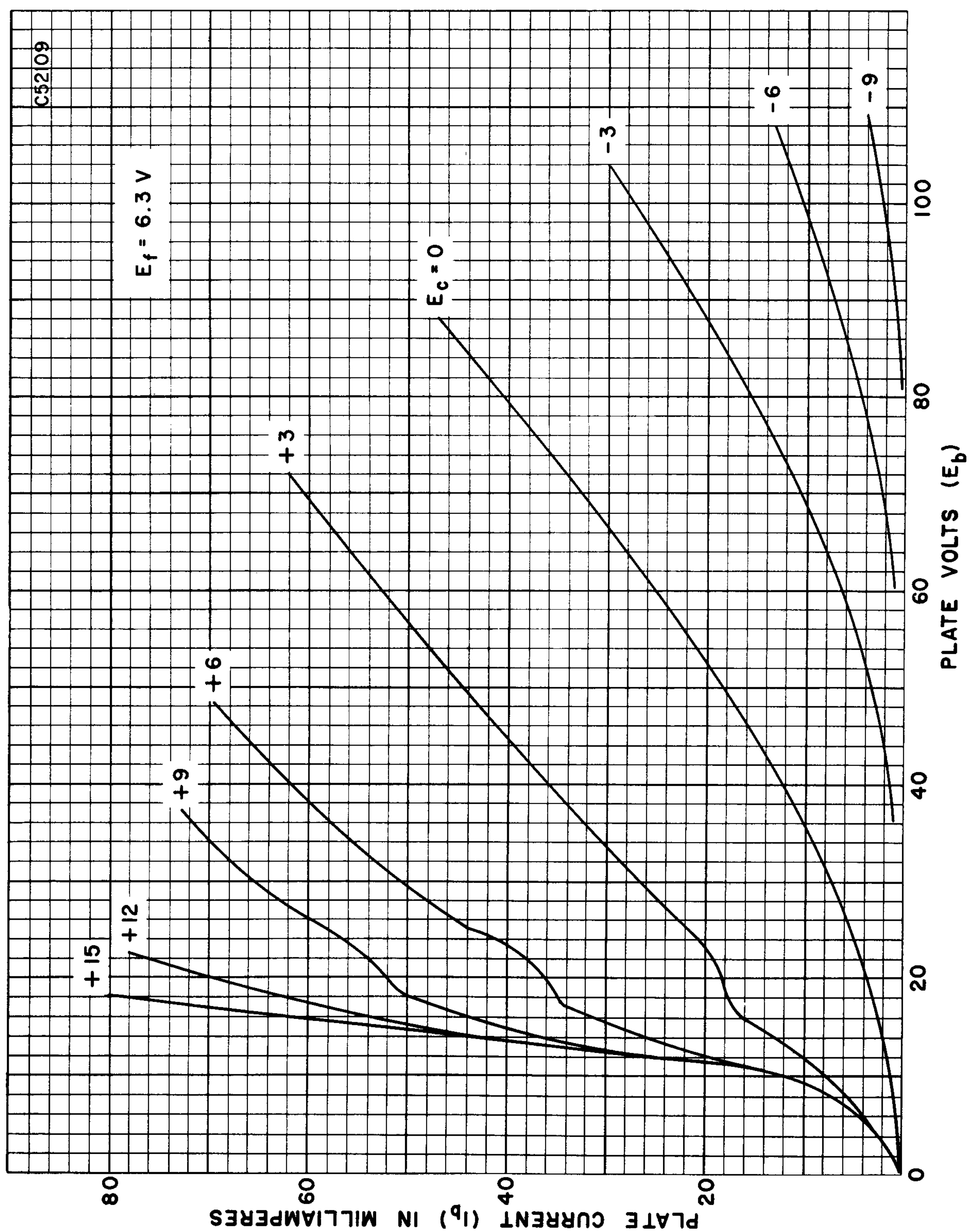
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JUNE 1955

AVERAGE PLATE CHARACTERISTICS



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AVERAGE TRANSFER CHARACTERISTICS

